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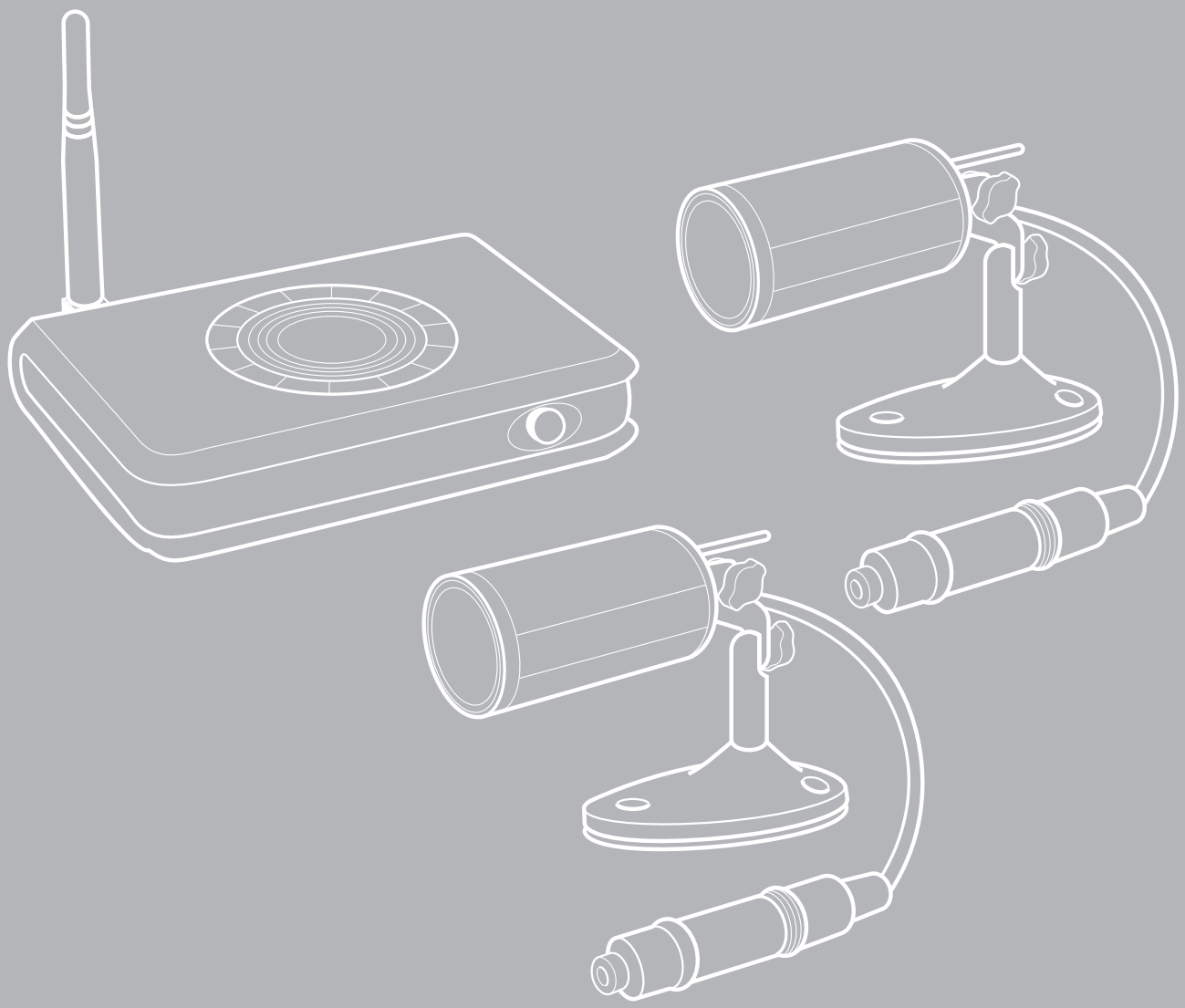

NiteCam2

2.4GHz Wireless Outdoor/Indoor Bullet Color Cameras(2) Kit w/Night Vision & Audio

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FCC Information

Notes on FCC's "Consistent Statement of Information" This product meet the requirements specified in Part 15 of FCC Regulation. Operation rests with the following two conditions:
(1) The equipment should not cause any harmful interference.
(2) The equipment must receive and process any interference, including any possible interference caused by operation mistakes.
After testing the product, we confirm that the camera complies with the provision for class C digital equipment in the 15th part in FCC regulations; and the receiver complies with the limitations for class B digital equipment in Part 15 of FCC regulation. The product generates, applies and emits radio waves. It might cause harmful interferences to wireless communication if not be installed and used following the description of the manual.
The product may cause interference in residential area, and the customer should take remedies to eliminate the interference on their own costs.
If the product causes any harmful interference to wireless equipment or disturbs the receiving of TV signals (it can be identified by turning on and off the product), you can solve the trouble by following methods:
- Readjust the product or put it in another place.
- Extend the distance between the equipment interfered and the product.
- Refer to dealers or experienced radio electrician for help

Warranty
SecurityMan warrants that this product will be free from defects in materials and workmanship for period of time specified on the product packaging. This limited warranty shall commence from the date of purchase. SecurityMan products warranty is not transferable and is limited to the original purchaser. If the product is found to be defective then, as your sole remedy and as the manufacturer's only obligation, SecurityMan will repair or replace the product. This warranty shall not apply to products that have been subject to abuse, misuse, abnormal electrical or environmental conditions, normal wear and tear or any condition other than what can be considered normal use.

Limitation of liability
The liability of SecurityMan arising from this warranty and sale shall be limited to a refund of the purchase price. In no event shall SecurityMan be liable for costs of procurement of substitute products or services, or for any lost profits, or for any consequential, incidental, direct or indirect damages, however caused and on any theory of liability, arising from this warranty and sale. The sell limitations shall apply not with standing any failure of essential purpose of any limited remedy.

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Notice:
2.4GHz wireless camera works at ISM band. It may cause interferences with other wireless equipment that operates with the same band. Please turn off one of the equipment to eliminate the interference.

Product Assurance
2.4GHz wireless camera will emit electromagnetic wave, just like other wireless products. But the output power of the product is less than other wireless products such as mobile phones. The 2.4GHz wireless camera meets wireless frequency security standards and recommend indexes while working. These standards and indexes are certificated by academic organization and represent the cogitative research of the scientific workers who continuously explore and annotate the involved fields. So we believe that our products are safe for customers.

Operating Restrictions
DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for these purposes.

DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment. This product should be placed at least 1 feet away from any heart pacemaker. Radio waves might potentially influence heart pacemaker and lead to respiratory disturbance.

DO NOT use this product for any illegal activities. SecurityMan shall not be responsible for any consequences of illegal conducts by users

Conditions

Please read the following messages to make sure whether your working environment is suitable.

- Ensure there is enough space around the receiver for ventilation.
- The temperature should be kept between -20°C and 50°C (-4°F-122°F). The relative humidity should remain from 20% to 80%.
- Avoid putting the product in places where occur might change rapidly in temperature or humidity
- Keep it dry, dustless and avoid exposure in it directly in sunlight
- Keep product away from heat sources such as electric heater
- Do not use the camera near aggressive chemicals
- Do not place product near any magnetic objects

Maintenance

It might influence the normal operation of the product if used at the fringe range of normal temperature. Please turn off the power when not in use

Do not disassemble the product.

Do not shake or stricken the product.

Do not use this camera near water - for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.

Please obey the local government's environment protection policy.

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Introduction

Thank you for purchasing the NiteCam2 2.4GHz wireless indoor/outdoor bullet color camera kit with night vision and audio. It consists of two vivid CMOS color camera with night vision (B/W) and audio, and a compact 4-channel receiver with sharp 380 TV lines picture display output. The camera converts video and audio signals into radio signals and transmits them to the receiver, which then, can be input to TV,VCR or DVR for crystal clear sound and picture to monitor your home or business.

Package Contents

• 2 x wireless outdoor/indoor color camera (SM-202T)
 and wall-mount bracket
• 1 x 4-ch 2.4GHz wireless receiver (SM-202R) and antenna
• 2 x 8V power AC adapter (for camera)
• 1 x 7.5V power AC adapter (for receiver)
• 1 x A/V cable

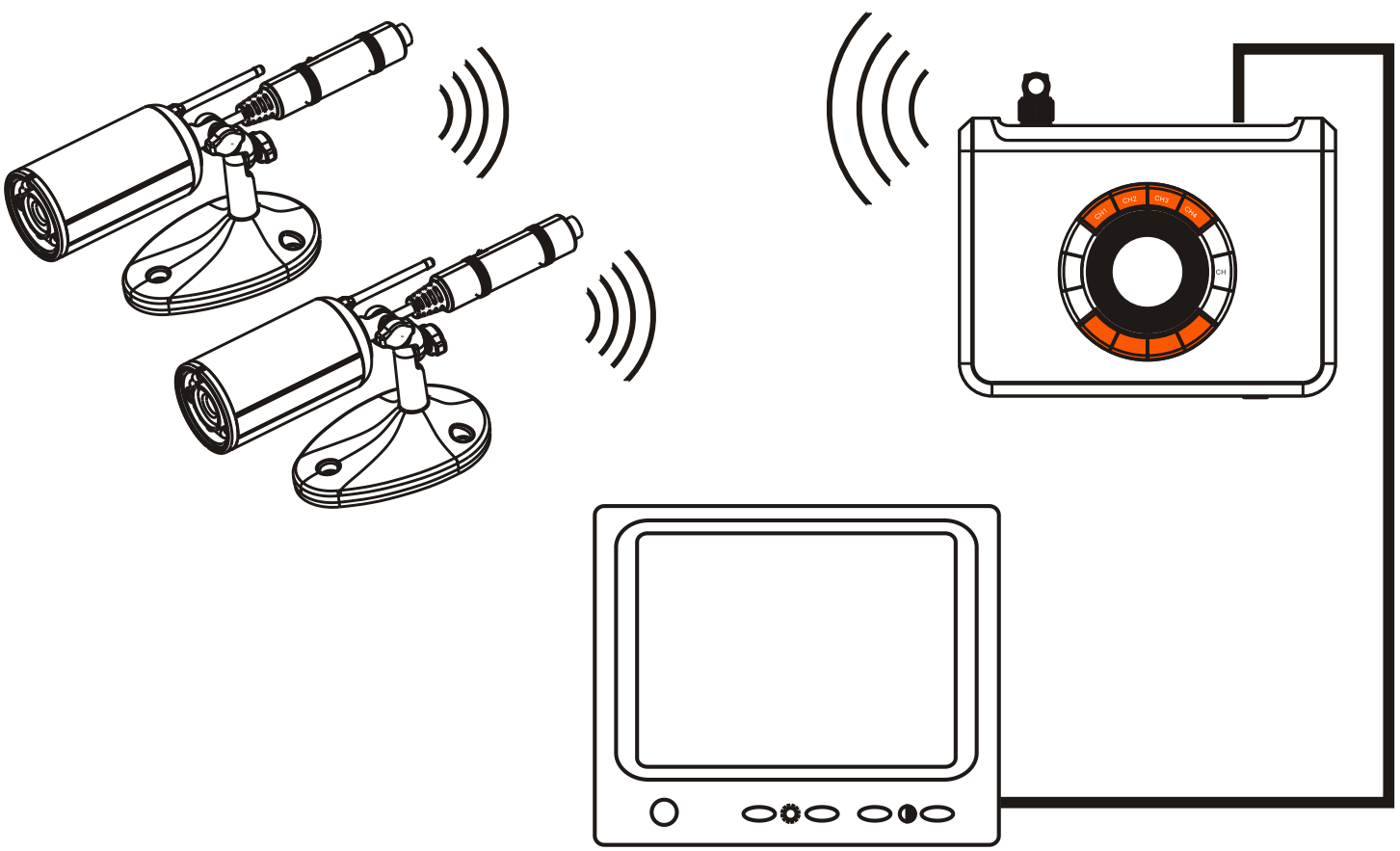
Technical Support

In USA, please call 1-909-230-6778 or in other areas,
e-mail us @ techsupport@securitymaninc.com

NiteCam2 Features

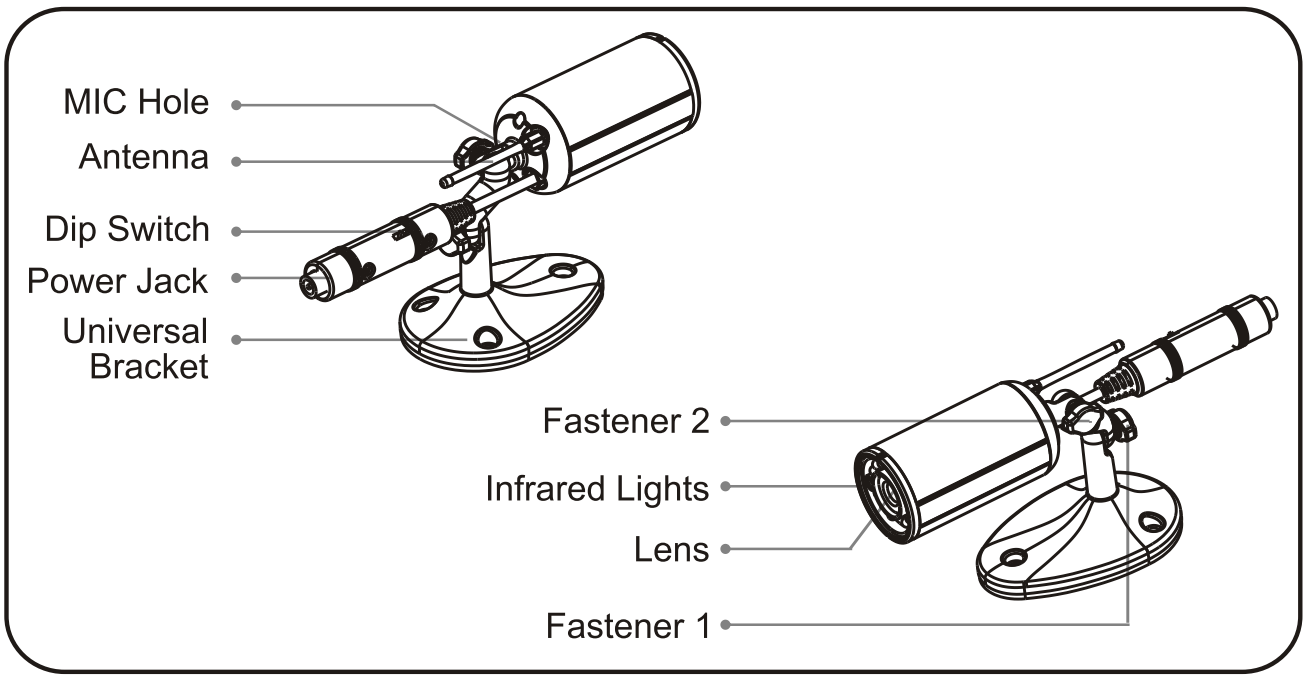
- Perfect for monitoring around your home or business
- Wireless video direct to TV, VCR, or DVR
- 380TV lines sharp picture display
- Built-in IR LEDs for night vision (up to 23ft)
- Weather-proof design for outdoor use
- Selectable 4-channel supports up to 3 cameras
- Built-in microphone for audio monitoring
- Up to 100 feet away indoor or 300 feet away with clear line of sight

Installation Diagram

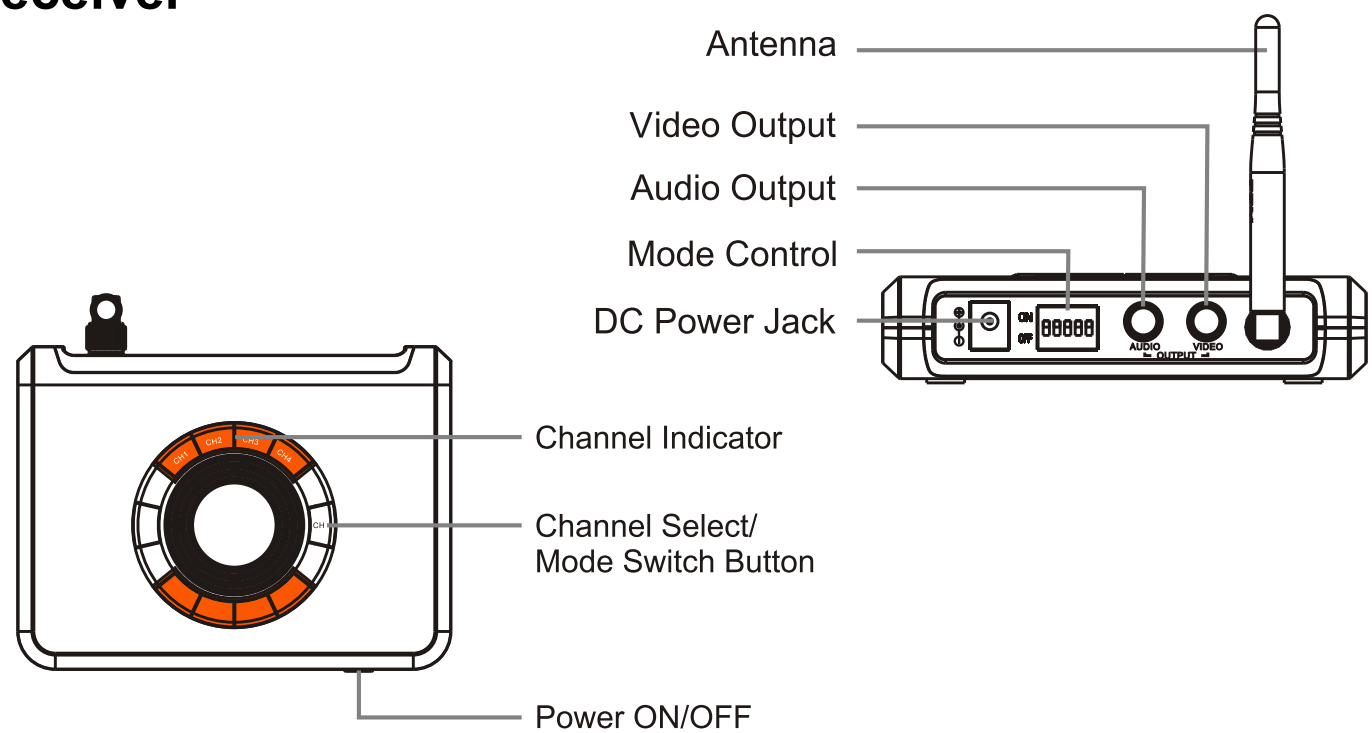


Product Basics

Camera



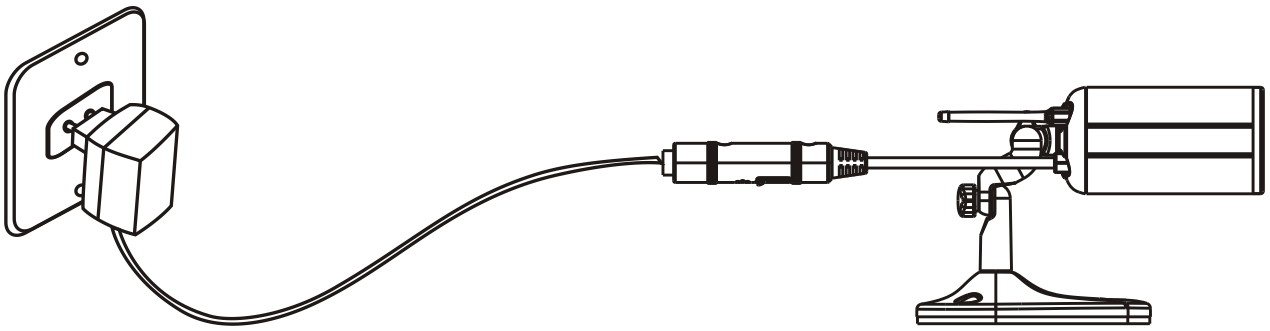
Receiver



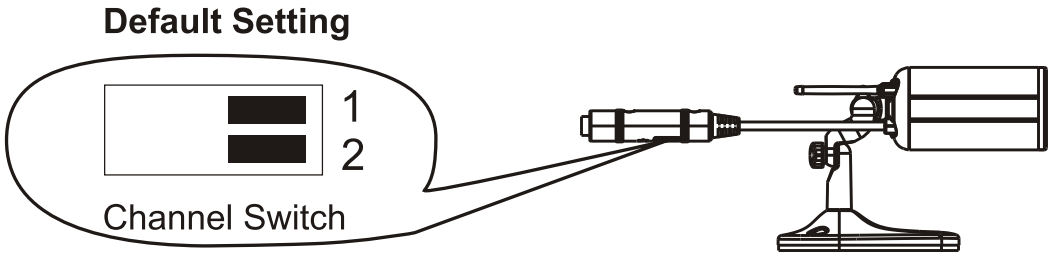
Installation & Setup

1) Connect the adapter (DC 8V 300mA) to the camera.

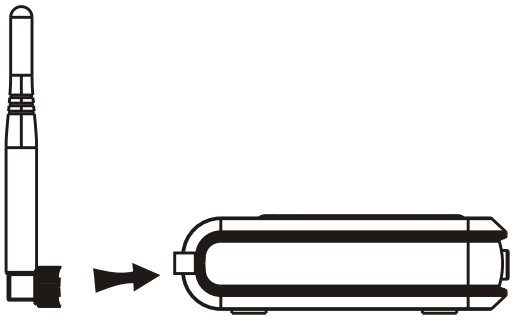
Power Outlet



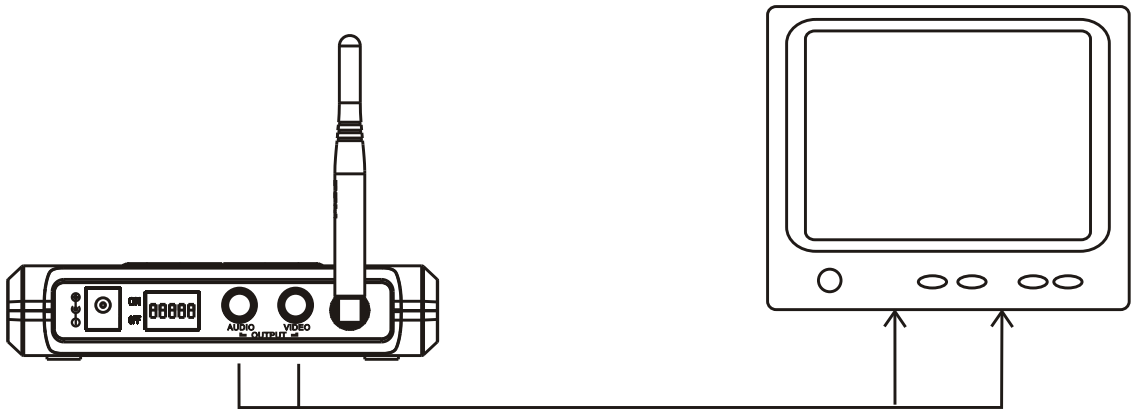
2) Set the camera to desired channel.



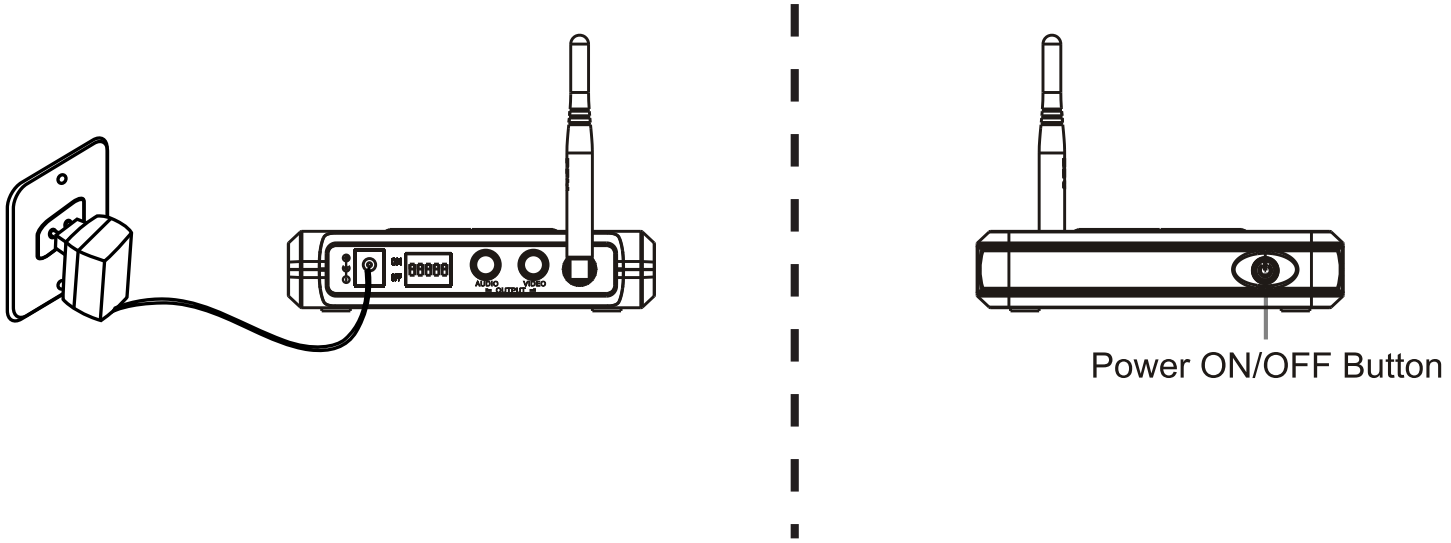
3) Connect the antenna to the receiver.



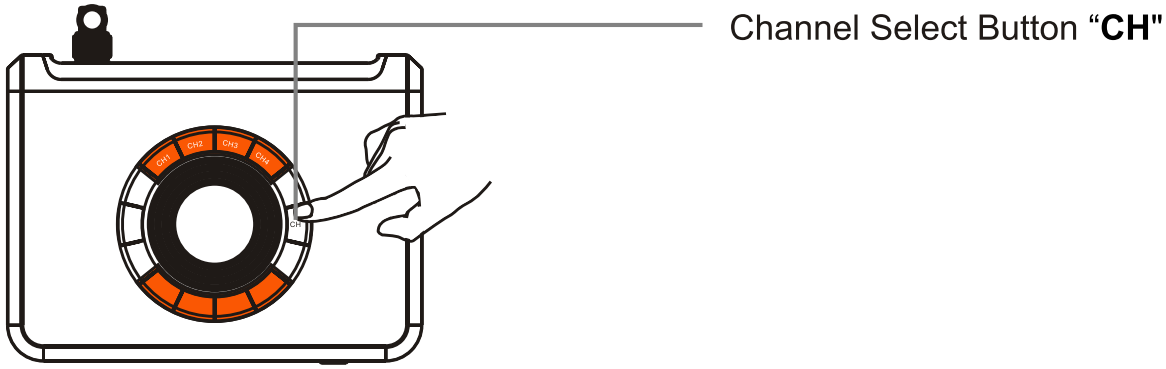
4) Connect the receiver to a monitor/TV with AV cable (yellow for video and red audio). Turn on the monitor/TV and select AV mode.



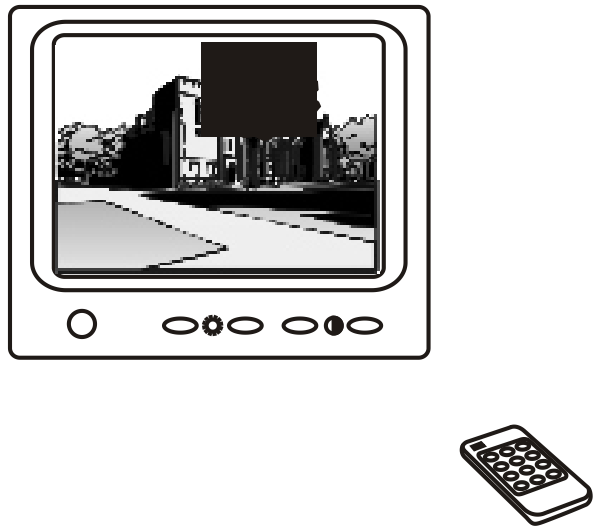
5) Connect the power jack of adapter (DC 7.5V 300mA) to receiver. Press the **Power ON/OFF** "⏻" button and the channel indicator lights up green.



6) Press the Channel Select Button “CH” on the receiver until the channel indicator matches to the channel on the corresponding camera, and monitor/TV will display pictures.



7) Adjust the brightness, contrast and color of the monitor/TV for the perfect effect.



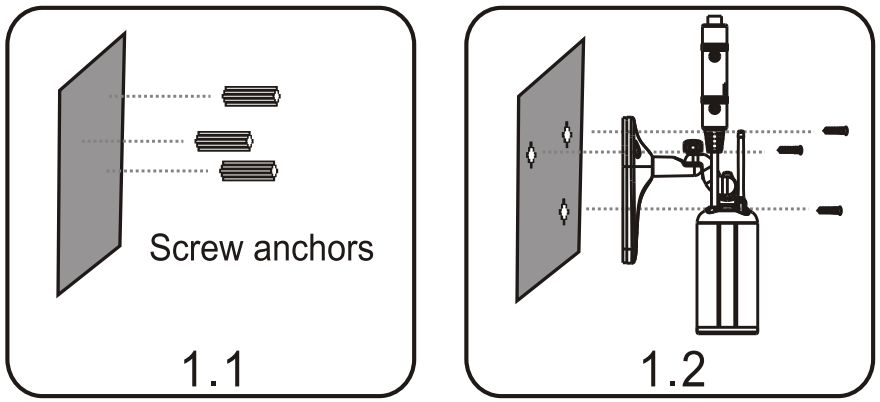
Camera Installation

1. Locate where you would like to install the camera

Please follow the steps below to install the camera to a wall or ceiling.

1.1 Secure the three screw anchors into wall (or ceiling) to match the hole pattern in the camera bracket

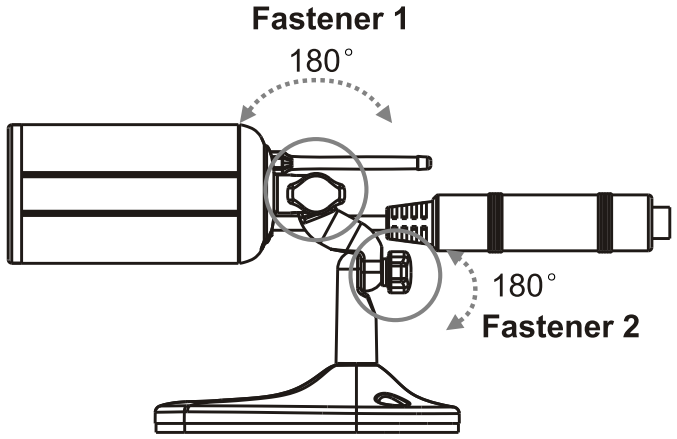
1.2 Align holes in the camera bracket and the anchors, and secure the camera on the wall with three screws



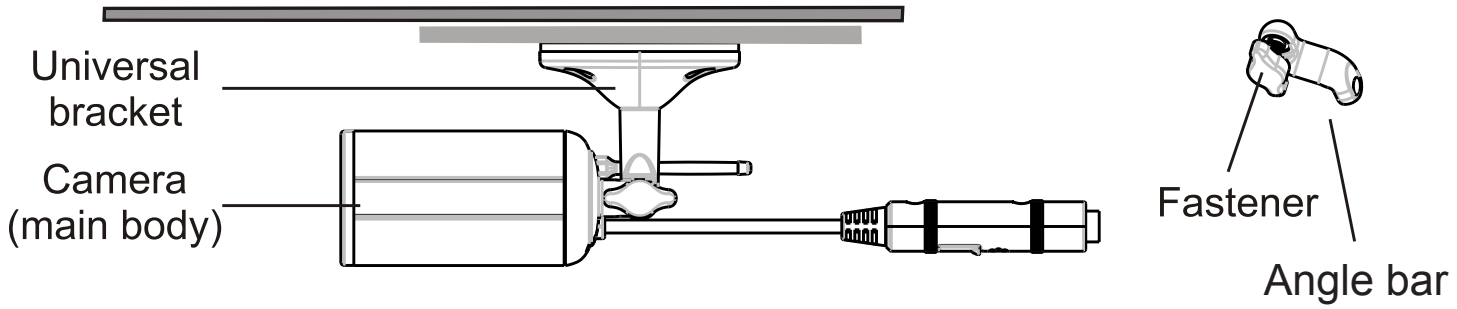
2. Adjust the angle

2.1 Unscrew Fastener 1, adjust the camera to an appropriate angle, and then fasten it.

2.2 Unscrew Fastener 2 to adjust the camera to an appropriate angle, and then fasten it.



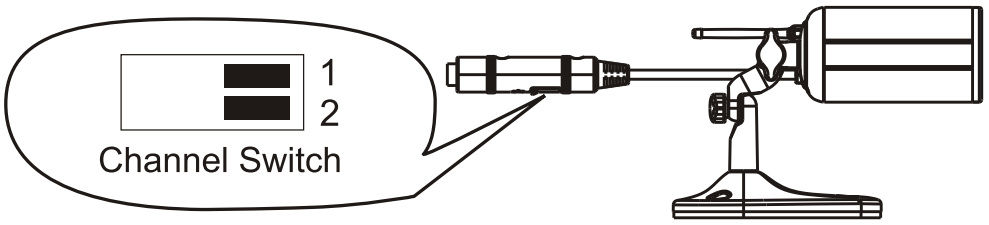
Note: If camera is being installed on to the ceiling, it is recommended to remove the angle bar and connect the universal bracket with the camera directly.



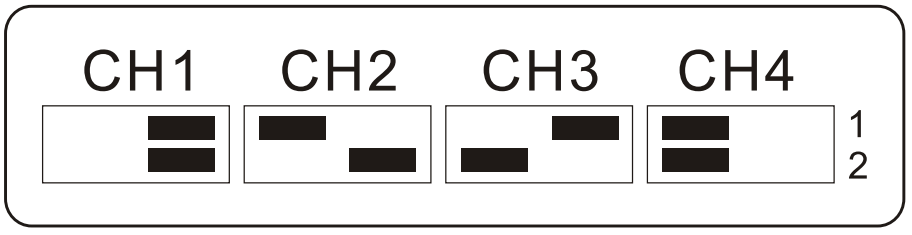
Camera Channel Setup

This camera has 4 selectable channels to avoid possible interference from other nearby wireless devices.

Default Setting



Channel Switch Setup Diagram

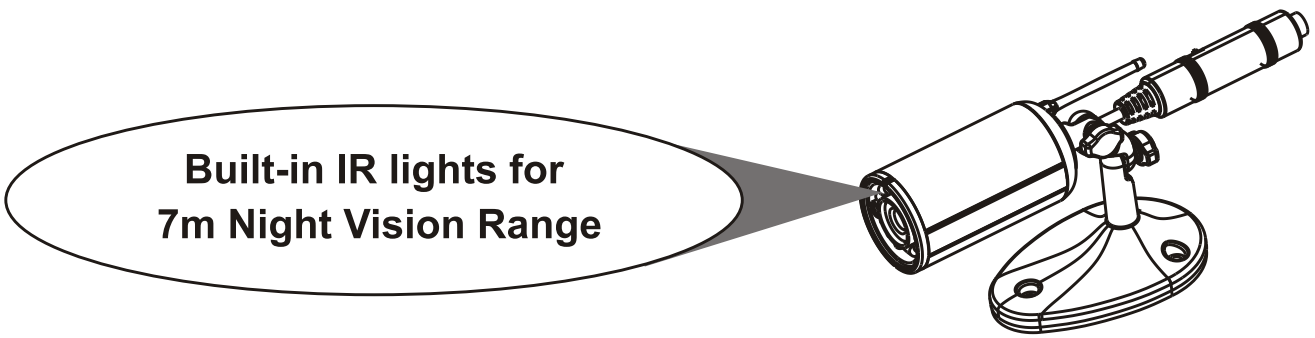


Channel Frequency

CH1=2,414MHz;
CH2=2,432MHz;
CH3=2,450MHz;
CH4=2,468MHz

Night Vision

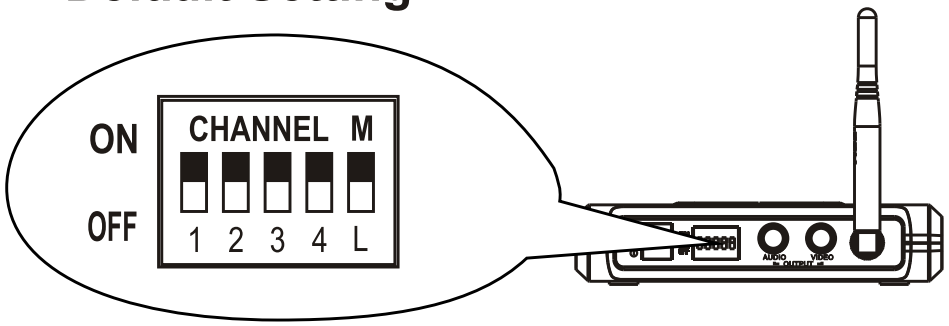
The built-in Infra-red lights in camera provide 7m night vision range for 24hrs surveillance. The Infra-red lights will be automatically activated at night or in dark places. The picture will turn Black & White (monochrome) in Night Vision mode.



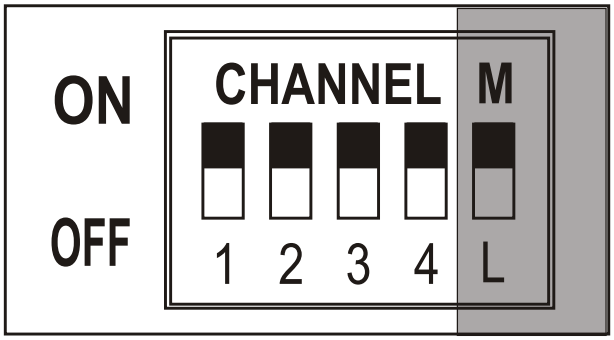
Receiver Mode Setup

The receiver can support up to 4 cameras working at the same time. You are allowed to set the **Mode Control** as described below. The **Mode Control** has the precedence over other buttons.

Default Setting



Channel Set



1 – ON: CH1 Enable (Default)
OFF: CH1 Disable

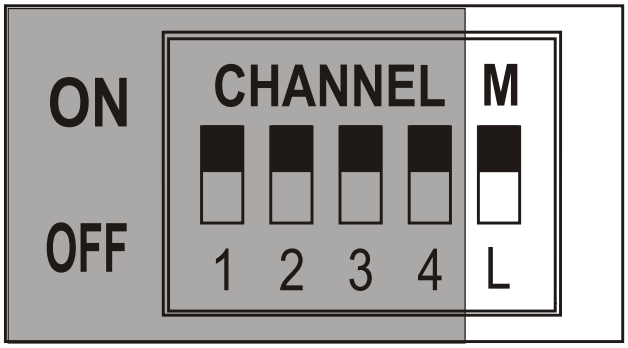
2 – ON: CH2 Enable (Default)
OFF: CH2 Disable

3 – ON: CH3 Enable (Default)
OFF: CH3 Disable

4 – ON: CH4 Enable (Default)
OFF: CH4 Disable

You can confirm which channel is set to receive signal from corresponding camera. With this function, you could set the unused channels to **OFF**, so that they will be skipped during the **Manual** mode or **Channel Scan** mode.

Channel-scan Set

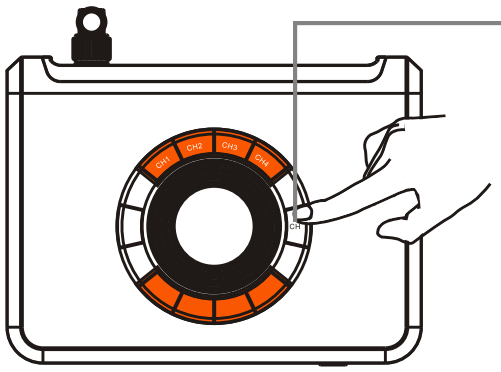


M: Manual Mode (Default)

L: Channel-scan Mode

1. **Manual** mode: Slide **Mode Control** switch to **M** to enter **Manual** mode. In this mode, the receiver channel won't change until you press the **Channel Select Button "CH"**

Tip:
*Channel-Scan function can also be activated by pressing and holding the **Channel Select Button "CH"** for more than 5 seconds in Manual mode.*
*Press the **Channel Select Button** again to deactivate Channel-Scan function.*



Channel Select Button "**CH**"

Press and hold more than 5s to activate;
Press again to deactivate

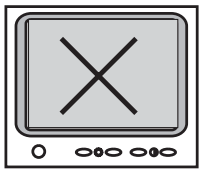
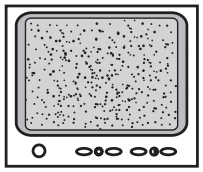
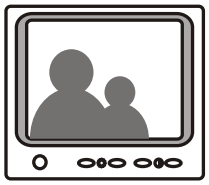
2. **Channel Scan** mode: Slide **Mode Control** switch to **L** to enter channel scan mode. In this mode, all the available channels will display one by one looping in turn per 5s. So you can watch the situations from up to 4 different cameras via one receiver.

Note:
*Press the **Channel Select Button "CH"** at the channel scan mode, the current channel will be looped to the next channel immediately.*
*Slide the **Mode Control** switch to **M** to exit the channel scan mode.*

Specifications of Camera (SM-202T)	
Image Sensor	1/4-inch CMOS
CMOS Total Pixels	510 X 492 (NTSC)
View Angle	45-50°
Minimum Illumination	3 Lux/F2.0 & 0Lux (IR ON)
Gain Control	Automatic
Frequency	ISM 2400~2483 MHz 4CH (Auto-loop/Manual)
Transmission Power	10mW/CE; 2mW/FCC
Modulation ModeBandwidth	FM
Power Supply	18MHzDC +8V 300mA
Consumption Current	200mA (IR ON) & 90mA (IR OFF)
Unobstructed Effective Range	100m (300ft)
Night Vision Range	7m (23ft)
Operation Temperature	-10°C~50°C / 14°F~122°F
Storage Temperature	-20°C~60°C / -4°F~140°F
Operation Humidity	85% RH
Microphone	Built-in
Weatherproof Rating	IP54

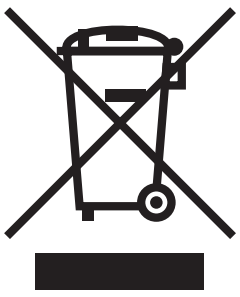
Specifications of Receiver (SM-202R)	
Receiving Frequency	2400MHz~2483MHz 4CH
Intermediate Frequency	480MHz
Frequency Stabilization	+/- 100KHz
Demodulation Mode	FM
Antenna	50ohm SMA
Local Leakage at	<-55 dBm
Input Terminal Receiving Sensitivity	<-85 dBm
Video Output	1Vp-p@75 S/N>38dB
Audio Output	1Vp-p@600
Power Supply	DC +7.5V 300mA
Power Consumption Current	240mA (max.)
Operating Temperature	-10°C~50°C / 14°F~122°F
Storage Temperature	-20°C~60°C / -4°F~140°F
Operating Humidity	85%

Troubleshooting

Abnormal Phenomena		Possible Reasons/Solutions
 No image	No sound	*Check the camera / receiver connected to power supplies, and power on.
 Snowflakes on image	Noisy	*Check if the channel of receiver is corresponding to camera; *Check the distance and blocks.
Ghost image	Normal sound	*Interfered by other sources; *Check the distance and blocks.
 Normal image	Noisy	*Interfered with other devices nearby; Remove or turn off such devices.

EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



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